

Amendments to the Claims

Claim 1 (**Currently Amended**) A digital broadcast receiving apparatus for amplifying a digital modulated signal wave propagated through air with gain automatically adjusted to have a predetermined amplitude, and demodulating the modulated signal wave to a digital signal, ~~said~~ the digital broadcast receiving apparatus comprising:

tuner means for frequency-converting ~~said received~~ the digital modulated signal wave into a first modulated signal;

first automatic gain control amplification means for controlling gain of said tuner means to make a level of ~~said~~ the first modulated signal at a first predetermined level;

A/D conversion means for converting, analog to digital, ~~said~~ the first modulated signal into a second modulated signal;

demodulation means for demodulating ~~said~~ the second modulated signal into a first demodulated digital signal; and

second automatic gain control amplification means for amplifying a level of ~~said~~ the first demodulated digital signal by following frequency fluctuations thereof to be at a second predetermined level, and generating a second demodulated digital signal.

Claim 2 (**Currently Amended**) The digital broadcast receiving apparatus according to claim 1, wherein

~~said first automatic gain control amplification means amplifies said~~ controls amplification of the digital modulated signal wave without following frequency fluctuations thereof, ~~and generates said for generation of the~~ first modulated signal, ~~and said second automatic gain control amplification means amplifies said first demodulated digital signal by following frequency fluctuations thereof, and generates said second demodulated digital signal.~~

Claim 3 (**Currently Amended**) The digital broadcast receiving apparatus according to claim 1, wherein

~~said first automatic gain control amplification means amplifies said~~ controls amplification of the digital modulated signal wave by following frequency fluctuations thereof that are smaller than a first predetermined frequency, ~~and generates said for generation of the~~ first modulated

signal, and said second automatic gain control amplification means amplifies ~~said~~ the first demodulated digital signal by following frequency fluctuations thereof under a second predetermined frequency that is larger than ~~said~~ the first predetermined frequency, and generates ~~said~~ the second demodulated digital signal.

Claim 4 (**Currently Amended**) The digital broadcast receiving apparatus according to claim 3, ~~further comprising~~ wherein the first automatic gain control amplification means comprises:

level detection means for detecting ~~the~~ a level of ~~said first~~ the second modulated signal; and

gain change means for changing the gain of ~~the~~ said tuner means based on ~~said~~ the detected level.

Claim 5 (**Currently Amended**) The digital broadcast receiving apparatus according to claim 4, ~~wherein the first automatic gain control amplification means further comprising~~ comprises:

threshold means for taking, as a threshold, a threshold voltage at which a control-voltage to amplitude-attenuation characteristic of said tuner means is abruptly changed, wherein

said gain change means takes, as ~~said~~ the gain, a first predetermined value when the detected level is higher than ~~said~~ the threshold, and a second predetermined value smaller than the first predetermined value when the detected level is lower than ~~said~~ the threshold.

Claim 6 (**Currently Amended**) The digital broadcast receiving apparatus according to claim 4, ~~further comprising~~ wherein the first automatic gain control amplification means comprises:

first threshold means taking, as a first threshold, a voltage lower, by a first predetermined amount, than a threshold voltage at which a control-voltage to amplitude-attenuation characteristic of said tuner means is abruptly changed; and

second threshold means taking, as a second threshold, a voltage lower, by a second predetermined amount, than ~~said~~ the threshold voltage, wherein

said gain change means takes, as ~~said the~~ gain, a first predetermined value when the detected level is lower than ~~said the first threshold;~~ threshold, a second predetermined value larger than ~~said the~~ first predetermined value when the detected level is higher than ~~said the~~ second ~~threshold;~~ threshold, and one of the first and second predetermined values based on a value immediately before ~~said the~~ detected level when ~~said the~~ detected level is higher than ~~said the~~ first threshold and lower than ~~said the~~ second threshold.

Claim 7 **(Cancelled)**

Claim 8 **(New)** A digital broadcast receiving apparatus for amplifying a digital modulated signal wave propagated through air with gain automatically adjusted to have a predetermined amplitude, and demodulating the modulated signal wave to a digital signal, the digital broadcast receiving apparatus comprising:

a tuner operable to frequency-convert the digital modulated signal wave into a first modulated signal;

a first automatic gain controller operable to control gain of said tuner to make a level of the first modulated signal at a first predetermined level;

an A/D converter operable to convert, analog to digital, the first modulated signal into a second modulated signal;

a demodulator operable to demodulate the second modulated signal into a first demodulated digital signal; and

a second automatic gain controller operable to amplify a level of the first demodulated digital signal by following frequency fluctuations thereof to be at a second predetermined level, and generate a second demodulated digital signal.

Claim 9 **(New)** The digital broadcast receiving apparatus according to claim 8, wherein said first automatic gain controller controls amplification of the digital modulated signal wave without following frequency fluctuations thereof for generation of the first modulated signal.

Claim 10 **(New)** The digital broadcast receiving apparatus according to claim 8, wherein said first automatic gain controller controls amplification of the digital modulated signal wave by following frequency fluctuations thereof that are smaller than a first predetermined frequency for generation of the first modulated signal, and said second automatic gain controller amplifies the first demodulated digital signal by following frequency fluctuations thereof under a second predetermined frequency that is larger than the first predetermined frequency, and generates the second demodulated digital signal.

Claim 11 **(New)** The digital broadcast receiving apparatus according to claim 10, wherein the first automatic gain controller comprising:

- a level detector operable to detect a level of the second modulated signal; and
- a signal generator operable to change the gain of said tuner based on the detected level.

Claim 12 **(New)** The digital broadcast receiving apparatus according to claim 11, wherein the first automatic gain controller further comprises:

- a level decision unit operable to compare the detected level to a threshold voltage, as a threshold, at which a control-voltage to amplitude-attenuation characteristic of said tuner is abruptly changed, and control said signal generator to take, as the gain, a first predetermined value when the detected level is higher than the threshold, and a second predetermined value smaller than the first predetermined value when the detected level is lower than the threshold.

Claim 13 **(New)** The digital broadcast receiving apparatus according to claim 11, wherein the first automatic gain controller comprises:

- a level decision unit operable to compare the detected level to a first voltage, as a first threshold, lower, by a first predetermined amount, than a threshold voltage at which a control-voltage to amplitude-attenuation characteristic of said tuner is abruptly changed and a second voltage, as a second threshold, lower, by a second predetermined amount, than the threshold voltage, and control said signal generator to take, as the gain, a first predetermined value when the detected level is lower than the first threshold, a second predetermined value larger than the first predetermined value when the detected level is higher than the second threshold, and one of

the first and second predetermined values based on a value immediately before the detected level when the detected level is higher than the first threshold and lower than the second threshold.